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TECH NEWS



VOL. 5, NO. 18

WORCESTER, MASS., JAN. 20, 1914

PRICE, SEVEN CENTS

Professor Butterfield's Address

Complete Information about Recent Developments of Alumni Field Work
CLASS OF '87 GIFT

Mr. President, Honored Guests, and Fellow Alumni:—

The alumni present will recall that when the present Alumni Field Development work was started a printed pamphlet, entitled "What We Propose To Do," was sent out to each member of the Alumni Association. In this pamphlet was outlined the plan under which we have worked so successfully for nearly three years. This pamphlet also announced that the secretary would try and interview personally as many alumni as possible. Several of the alumni were so interested that they could not wait until the secretary could come to meet them and they wrote their approval of the plan and guaranteed their pledges. The first or second letter (I do not recall which) to come in voluntarily was from Mr. Harry Worcester Smith. I received a very cordial straightforward letter of approval from him, asking that our official pledge blanks might be sent him so that he could fill them out as he desired. The return of these blanks was accompanied by a letter, a portion of which I am sure you will be interested in:

"I beg to enclose the subscription blanks No. 1031 filled out according to my original idea.

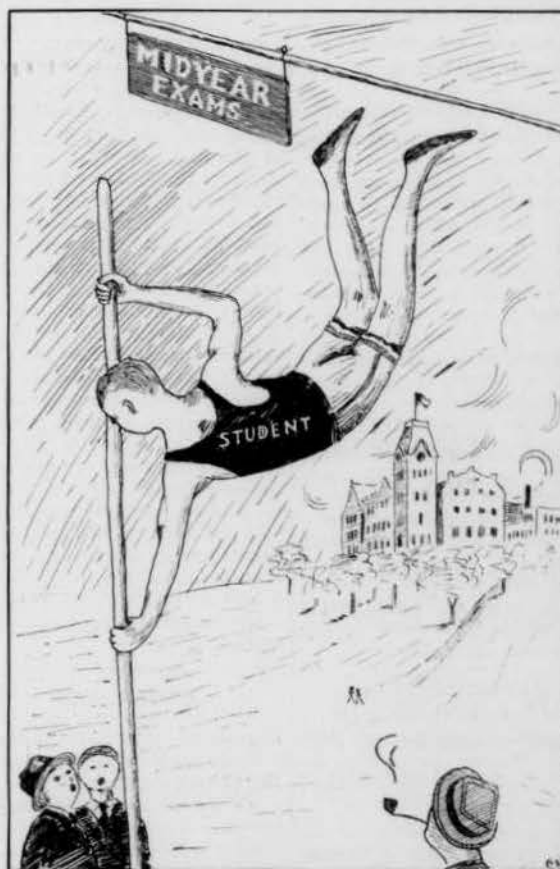
I do not think anyone appreciates more than myself the need of the gymnasium on the Field at the Tech. I was the only so-called athlete in my class, or rather the only one who dared to indulge in same. We had a tennis net down in the front field and played on the rough grass.

I used to ride a high wheel up to the school, and once in a while was driven up by our coachman, and my mother was informed by the faculty that it would be better if I came in the regular way by walking. Then I had a few long-tailed greyhounds which also caused comment; but as luck would have it I was in New York at the Madison Square Dog Show at the time the horse was put up into the main hall, consequently I had a clear alibi, but rather than take advantage of same, I stood in with all the members of the upper two classes, and when it came down to our class everyone went back on the crowd except Smith, and so in the reports for two or three days Smith of the Junior Class stood out quite prominent, although as the above shows, he had absolutely nothing to do with the case.

I should be glad to do more at some future time if I saw that matters were working out properly.

Yours very truly,
(Signed) HARRY W. SMITH."

Continued on Page 4



AS IT LOOKS TO MANY OF US

TECH SHOW CAST CHOSEN PRIZE OFFERED FOR BEST POSTER

On Monday, January 12, the final cast for the Tech Show was announced. For three weeks frequent rehearsals have been held with two would-be actors trying out for each part and it was only after careful consideration that Coach Carroll selected the men whose names, together with the characters they will play, are given below. The play will be presented during the week of March 23 and after mid-years the rehearsals will be pushed as fast as possible.

It is to be noted that a large portion of the cast is composed of new men. This fact should encourage all Tech students to go out for school honors whether they are experienced or not. There is a chance to start this habit now. The Dramatic Association has offered a prize of five dollars to the man who designs the best poster for the Show. Everyone who has the slightest artistic ability should set to work at once. The financial benefit to the successful competitor is not to be slighted and a still greater reward will be the feeling that he has done a little something for old W. P. I.

Continued on Page 5

RIFLE TEAM IN TWO MATCHES Score Falls Off in One, but Shows Improvement in Other

C. S. DARLING ELECTED CAPTAIN

The rifle team shot two more matches last week, one on Tuesday evening against the University of Pennsylvania, and one against the University of Missouri on Friday evening. In the first one the team score dropped off five points from the previous match, the total being 887, but on Friday night marked improvement was shown, the team shooting 903. Miller and Bragdon, two new men at the game, showed good form and a steady nerve in both matches. Miller tied Darling at 185 in the first match, and Bragdon, who has been improving all the time, shot a tie with Davidson at 186 in the second. Just before the match with the University of Missouri, C. S. Darling, '17, of Springfield was elected captain of the team.

(Continued on Page 5)

NOTICE

The next issue of the TECH NEWS will appear Feb. 3rd. The omission of a number on Jan. 27th is due to mid-years.

Tech to Run Wesleyan

FIRST RELAY RACE, JAN. 24

Manager Pike has completed negotiations whereby the Institute will be represented on the boards at the Coast Guard's Artillery Meet at Boston this Saturday, Wesleyan College's fast quartette of runners being the opponent. Although Tech was not in favor of taking on such a fast opponent at this early stage in the game, the improvement of the team in the past week has justified Coach O'Connor in his decision. Though Tech cannot hope to win with her short period of preparation, yet she hopes to push the Connecticut men to the limit and a fast race is predicted.

Negotiations are still pending regarding the B. A. A. Meet on February 8. The Boston management has made arrangements for a three cornered race with the Amherst Aggies, Boston College and Tech as participants, but this arrangement is not highly satisfactory and an attempt is being made to renew the annual dual contest with the Aggies.

On account of the extremely cold weather, the poor physical condition of the teams, and the inability of the Senior Class to get out four men, Coach O'Connor has deemed it advisable to postpone the Inter-class matches for the 1890 cup. The teams are training consistently and the races will probably be held the first week in February. The coach is now directing all his energy in whipping together a team to meet Wesleyan this Saturday.

CHALLENGE

The Freshmen hereby challenge the Sophomores to a series of hockey matches, the number of matches in the series to be decided upon by the managers of the two teams.

Signed

A. W. JORDAN,
Mgr. 1917 Hockey Team.

The Standardized Conduit Fittings Co. has presented the Electrical Department of the Institute with a display cabinet showing Paiste pipe taplets. The cabinet contains samples of special pipe fittings such as outlets, rosettes, switches for all kinds of pipe work.

TECH NEWS

Published every Tuesday of the School Year by

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Worcester Polytechnic Institute

TERMS

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All communications should be addressed to Tech News, Worcester Polytechnic Institute.

All checks should be made payable to the Business Manager.

The Tech News welcomes communications but does not hold itself responsible for the opinions therein expressed.

All material should be in before Thursday noon at the latest in order to have it appear in the week's issue.

Entered as second class matter, September 21, 1910, at the postoffice at Worcester, Mass., under the Act of March 3d, 1879.

THE DAVIS PRESS
Graphic Arts Building

MEETING OF TECH NEWS STAFF

There will be a meeting of the Editorial Board of the News at 5.00 P. M. Jan. 28th, in the Tech News Building. Everyone concerned is expected to be present. Don't forget the date, Wednesday, Jan. 28th.

Editorials

Elsewhere in this issue is an article especially worthy of every Tech man's attention. It is headed, "Professor Butterfield's Address," and contains in Professor Butterfield's own phraseology, accurate information concerning the purchase and development of the lot of land at the corner of Institute Rd. and Park Ave. Although at first glance, the article may seem long to some, it should not be neglected for that reason, for once a person has started to read it, the article will be only too short. Furthermore without reading it, many will not appreciate just how far-seeing and earnest Professor Butterfield has been in his Alumni Field work.

It is time to be considering for whom you are to vote at the next election of your class officers, which comes soon after mid-years. Con-

sider well every man's worth, and don't vote for him just because he is in your fraternity, or your division, but vote for a man because of his worth and ability. Don't make political contests out of the class elections.

This is the last issue before the new term. We wish you all success in your examinations, and hope that you will all be back after the examinations with renewed determination to do your level best.

FRESHMAN HOCKEY TEAM

The Freshmen have started something again. Rankled by their defeats in football and in the rope-pull, they are going to try to redeem their prestige by means of hockey. On Thursday they voted unanimously to support a team and elected Alfred W. Jordan to manage the seven. Practice will be commenced immediately and challenges will be issued to the other classes. Let us hope they will respond so that we may have one more thing to add to "the life" on the Hill.

SOPHOMORE CLASS MEETING

A meeting of the Sophomore Class was held recently when it was voted to assess each member of the class 50 cents a year. The purpose of this being to have some money on hand to help defray aftermath expenses when it comes to the senior year. They were instigated to do this owing to the trouble the Class of 1914 is having in getting their money for this purpose.

TECHNICALITIES

The Glee Club and Orchestra gave a concert at a Cabaret held Saturday afternoon at the Bancroft Hotel under the auspices of the Southern New England Textile Club.

H. T. Spaulding, a graduate of the Electrical Department, Class of '09, now acting as Assistant Illuminating Engineer at the National Lamp Works of the General Electric Co., has developed an illumination computer. If given the use to which the room is to be put, one can determine the spacing and height above floor for any lamp with any of the usual types of shades. This work had to be done previously by the use of tables.

Mr. R. R. Stevens of the Chemistry Class of 1911, W. P. I., who has been with the S. S. White Dental Co. of New York, will take a position with the International Silver Co., of Bridgeport, Conn. The work will be executive in character along the lines of Scientific Management.

Mr. A. L. Brown of Class of 1913 in Chemistry leaves the local Gas Works to take a position with R. S. Weston, Sanitary Expert of Boston. Mr. Brown will take charge of the degreasing plant of the Hudson Worsted Co. at Hudson.

The Department of Chemistry has received samples of wool grease and products derived therefrom. These specimens are the gift of Marsten, Orth & Hastings, Boston.

The Amid Duro Co., of New York has presented the Chemical Department with samples of emulsions that are of large commercial value in the important field of Colloid Chemistry. The presentation was made at the request of Dr. Briggs who has charge of the courses in Colloid

TANGO CLASS

Miss Ruby H. Day

TO TEACH

The Tango, Hesitation Waltz, One Steps, Castle Walk, etc.



chemistry, and who is making a detailed study of the problem of Emulsification in conjunction with Prof. W. D. Bancroft, of Cornell. "Duron" is an amide, or nitrogen compound of stearic acid, the hard, white portion of fats, and suet. A little soap is also admixed. This material will emulsify from five to fifteen times its own weight of the various oil so largely used in technical processes, such as Fish Oils, Mineral Oils, and Paraffine Wax. These emulsified oils are of great value in tanning leather, since the extremely fine drops of the emulsified oil penetrate the hide fibre very rapidly.

The emulsions given by "Duron" are claimed to be superior to the emulsions formed by soap, borax or sulphonated oils, now used for this purpose. Dr. Briggs has done much research work in this field both at Cornell and the Tech, which has thrown considerable light on the nature of emulsions, and with Mr. H. F. Schmidt of 1913 class of Chemistry, prepared very interesting emulsions of benzene and water.

50-200, 150-600, and 500-2,000 R. P. M. The tachometer is provided with means for connecting it to the machine whose speed is desired by pulley or extension shaft or the instrument may be held in the hand like an ordinary speed counter. The R. P. M. are read from a dial by means of a pointer.

PLUGGER'S COGITATION

from "AMLET"

To plug or not to plug,—that is the question;

Whether 'tis nobler in the mind to study
When learned doctors give examinations
Or to entrust our troubles to small papers
And by skilled devices end them? To
plug; to crib;

No more; and by a crib to say we end
The heartache and the thousand weary
sighs

That grinding's heir to, 'tis a consummation
Devoutly to be wished. To grind, to crib;

To crib; perchance be caught; ay, there's
the rub;

For in exam what unhot things may hap-
pen

While we are shuffling 'round the
'double roll'

Must give us pause; there's the respect
That makes calamity of too much
cribbing.

For who bear the scorns and spurns of
Prexie

The cringing Techman of the unworthy
takes

When by judicious cribbing he could make
Tau Beta Pi; and who would study bear
To sigh and struggle 'neath the mid-
night lamp

But that the fear of dread discovery,
Of Faculty decree, and banishment
With scarce hope of returning puzzles the
will

And makes us rather bear those ills we
have

Than fly to others we know not of?
Thus conscience does make pluggers of us
all

And thus is the native hue of confirmed
idleness

Sicklied o'er with the pale cast of thought.

A MAN'S SONG

I've washed up the silver and dishes,
I've made all the beds for the day.

I've finished preparing the fishes
We ordered for luncheon today;

The floors have been swept, and the parlor
Came in for a clean and a wipe,
When breakfast was eaten the rugs were
all beaten—

And now for a whack at me pipe.
I've polished the mirrors and dusted
The cupboards—they needed it, too—
And mended a chair that was busted.

And blackened the range and the flue;
I've hooked up the waist of the missus,
She's off for a lecture on Kneipp,

The week's washing's over, and I am in
clover—

And now for a whack at me pipe.

—WILLIAM WALLACE WHITELOCK.

WORK OF THE EDITOR

"John Doe climbed on the roof of the
house last week, looking for a leak and fell,
striking himself on the back porch."

"As Willie Herald Green was escorting
Miss Violet Wise home from a church
social last Saturday night a savage dog
attacked them and bit Mr. Green on the
public square."

"Isaiah Trimmer of Lebanon was
playing with a cat last Friday when it
scratched him on the veranda."

The electrical department has recently
purchased a Dr. Horn model tachometer
through the Industrial Instrument Co.,
Foxboro, Mass. This tachometer is made
in Germany and has three ranges of speeds:

COLLEGE NEWS

One of the first intercollegiate ski meets between the United States and Canada will take place February 21st at Montreal during the Ice Carnival. Representatives from Dartmouth and McGill have arranged for a four-mile relay race.

Doctor Wolfgang Ostwald, the eminent chemist, is delivering a series of lectures at Illinois this week. Doctor Ostwald is professor of Physical Chemistry at the University of Leipzig.

At the present time Harvard, Pennsylvania, Dartmouth, Princeton, Cornell, and Columbia have signified their intention of entering the Intercollegiate Glee Club Contest, which is to be staged at the Metropolitan Opera House in New York some time in May.

The University of Pittsburg has opened a free "school of childhood" for children from four to seven years of age, in which it hopes to "combine the best features of the kindergarten, the playground and the Montessori school."—Brown and White, Lehigh.

Fire broke out in one of the fraternity houses at Purdue last week. Little damage was done although the fire caused much excitement.

The first issue of the Official Weekly Calendar of the University of Illinois appeared last Saturday.

Part of the editorial page of the Cornell Daily Sun is being used for the purpose of bringing facts about alcohol to the attention of the student body. Emphasis is placed on the scientific phase of the subject, and information from only the most authoritative sources is used.

After a walk of some 300 miles along winding roads from New York City to Ithaca, in weather at times below zero, V. G. Gahnkin, a sophomore in the Cornell College of civil engineering, was in serious condition in the university infirmary at Ithaca, N. Y. last week, suffering from exposure. His hands were frozen.

The seniors in the school of engineering of the university of Missouri have an annual beard-growing custom. When they reassemble after the holidays they make a solemn compact not to shave until after the semester examinations at the end of the month. This is, accordingly, the period of unknown faces in the classic shades of Missouri's engineering school.

TECHNICALITIES

The electrical department has ordered book cases for 400 volumes to be placed in the library of the department. These cases will provide shelves for the books that are purchased in two years. At the present time, the main floor of the library has been filled to capacity with cases and the new cases will be placed on the mezzanine floor which has space for about 4,000 volumes. The policy of the department is to purchase each year all the important works on electrical engineering that appear. This policy has developed the library of the department into one of the best department libraries to be found among colleges of engineering.

The Chemical Department has added this year a convenient equipment for obtaining D. C. current from the 110 A. C. lighting circuit. A specially designed 4 K. W. transformer, air cooled, with detachable core, is provided with a series of taps on primary and secondary for convenient voltage regulation. The transformer is operated from a small switchboard, designed to allow rapid

readings of primary and secondary voltages and current with one voltmeter and ammeter. The various secondary taps are connected to an aluminum rectifier, with a maximum capacity of 25 amperes D. C. at variable voltages. The D. C. current is distributed from a separate switchboard specially designed for class exercises in electro-analysis storage battery testing and other work. The whole equipment was designed and installed by Dr. Callhane for use in his courses in Electrochemistry.

The work on the redesigning of the 600,000-volt transformer that was made in the electrical department of the Institute in 1901 is progressing satisfactorily. The pit that has been under construction for the transformer has been completed and is located in the high potentials laboratory of the electrical building. Its dimensions are 24 x 12 ft. and the pit is about 6.5 ft. deep. G. I. Gilchrist, '12, is working with Prof. Harold B. Smith on the redesign of the transformer.

TECH SHOW

(Continued from page 1)

The Cast

Merry Haskell, the hero, Wellington, '17
Ray Russell, his chum, Haselton, '15
Joe Pitman, editor of the TECH NEWS, Drayton, '15
Frank Mowers, his chum, Gibbons, '14
Harry Myers, a freshman, Jacoby, '17
Larry Byers, a freshman, Jewell, '15
Lord Helpus, an Englishman, Bird, '17
Ab Zint Mynde, a dorky, Demming, '17
Cornelius Rockman, an old man, Becker, '17
Deak Wescott, Less Castle, Don Bridge, Pete Cleve, "frat" men,
Wright, '17, Dunbar, '16, Hollis, '16, Sawyer, '14
Dorothy Burton, in love with Merry, Upton, '16
Ruth Rockman, in love with Ray, Smith, '15
May B. Later, whom the two freshmen love, Raynsford, '15
Grace Fuller, Gladys Camby, Mabel Stewart, society girls,
Perkins, '17, Spaulding, '16, Wyman, '16
Claribel Fosting Walker, Dorothy's aunt, Waite, '15
Ann Ghorra Ghetta, a wallflower, Sessions, '17
A Policeman, Kienle, '16

"I'd like to stay with you longer, boys; but now I must go home to the best little woman in the world."

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CLASS OF '87 GIFT

(Continued from page 1)

I wish to call your attention especially to the last statement of that letter, as I shall refer to it later.

Last spring, at one of the local association meetings one of the alumni came to me and said there was a member of our association who had never met me. Of course I was desirous of meeting such a person because I considered that an alumnus whom I had not met was a rather rare article. The gentleman to whom I was introduced was Mr. Harry Worcester Smith, and he was kind enough to express his appreciation of the work which the Executive Committee had done in the past two years. He also emphasized the sentiment with which he closed his earlier letter to me, and I, of course, was very glad to hear him mention it, for that statement had been carefully pigeonholed in the recesses of my brain.

About two months ago, in reading the morning paper, a statement appeared which interested me greatly and made me feel that it was time I had a personal interview with Mr. Smith. I immediately telephoned asking if Mr. Smith would grant me an interview. I received a cordial response that he would be glad to see me, and he welcomed me in practically these words:—"I know what you want; now what have you got on your mind?" Receiving such a hearty assurance from Mr. Smith I immediately outlined a certain definite plan. I outlined what I am going to call "The Class of '87 Plan."

The alumni here will recall that, due to the purchases of the last few years, both by the alumni and the trustees, we now own all the land bounded by West St., Institute Road, Park Avenue, and the proposed new street, except the corner at Institute Road and Park Avenue. Ever since we contemplated putting our Athletic Field where we have now located it, (along Park Avenue), it has been my dream to devise some means whereby the alumni could purchase this corner property, and thus round out the Institute's holdings. For two years I have been trying to think of some plan that I felt would surely be successful in acquiring this, but I could think of none without possibly jeopardizing some of our greater interests. When this item appeared in the daily papers there came to me the solution of my problem, and hence my desire for an interview with Mr. Smith. I presented to him the proposition of buying this corner lot, erecting nice entrance gates and making it the main entrance of the Field, and calling it the "Class of '87 Gift." This idea appealed very strongly to Mr. Smith, and his talk with me was so encouraging about devising an "87 Plan" that I ventured to buy the property myself while Mr. Smith was working out a plan. Just how a poor man like myself was to buy the property was a question. I finally solved it in this way. I wrote to an alumnus outlining what I hoped to accomplish and asked if he would loan me a certain amount, stating that I could borrow the rest. His reply was his check for the desired amount, stating that this could be used for buying this property and if the Class of '87 wanted the honor of it, later, when they paid in their money, this amount could be turned into the treasury of the Alumni Association and counted as a gift from the Class of '71. I borrowed the remain-

ing amount, bought the place, and it now stands in my own name.

In the meantime Mr. Smith had thought the proposition over and worked out the following plan, as shown by his letter to me, a portion of which I read:

"Dear Mr. Butterfield:—I have been giving careful thought to the question of the corner lot necessary for the W. P. I. Athletic Field, and the gates. It seems to me that every member of the Class of '87 ought to be given an opportunity to pay a little towards the gift.

Now I will give the gates, they not to cost over \$1500, and to be of a design satisfactory to me, and also satisfactory to Dr. Gentner, Director of the Worcester Art Museum, and two-thirds of the Trustees of the Worcester Polytechnic Institute. And in addition, I will give half the cash necessary for the land, divided up into ten payments for ten years, the class to give the other half, and each of us to bear our pro rata share of the interest over the ten years.

Now you are an expert as to how to get this money from the alumni from the Class of 1887, and know just how many there are.

Yours very truly,
(signed) HARRY WORCESTER SMITH."

Thus you see that Mr. Smith has promised us the gates for the main entrance, and has already turned over the \$1500 to the Treasurer of the Alumni Association.

For the last month I have been working on the proposition of obtaining half the cost of the land from the other members of the class of '87. While the total amount is not fully pledged, all the members of the class that I have seen or heard from, assure me of their support to the limit of their financial ability. I am absolutely certain that it is but a question of time before the Class amount will be pledged. All you gentlemen who have been interested in raising money realize that earnest, persistent efforts will in time accomplish the desired result.

To show you the attitude of the other members of the Class I wish to read the following letter received yesterday:—

"My dear Professor Butterfield:—Your letter and outline of the "'87 Plan" came safely to hand. I shall be very glad to subscribe the desired amount that you suggest in order to help carry out the scheme. Good for Harry Smith. May his shadow never grow less! With best wishes, Very sincerely yours."

The designs of the gates are of course not yet completed and some time must be taken in studying them out in order that we may get a beautiful entrance. I feel sure that all of you will agree with me when I say that through Mr. Smith and the Class of '87, there has been made possible a plan whereby the whole artistic setting of our Alumni Field has been immensely increased.

Personally I wish to express to Mr. Smith my heartfelt thanks for his loyal support in upholding my hands in the alumni work, and I know that every alumnus feels the same as I do about it.

Recent visitors at the Institute were: R. W. Burpee '09, with the St. Lawrence Bridge Co. of Montreal; R. S. Fiske, '08; Designer with the Trussed Concrete Steel Co. of Detroit; F. H. Plaisted, '12, with the Big Four Railroad of Cincinnati, Ohio; and R. D. French, '05, Lecturer in Municipal Engineering, McGill University, Montreal.

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Hour Plan Schedule of Recitations, January to June 1914

The following changes will take place after the first eight weeks:—

Dept. of Political Science,

Business Law stops,

Junior A and B, Political Science changes from Saturday at 10 to Monday at 11.

Dept. of Mechanical Engineering,

Senior A Steam Engineering changes from Thursday at 10 to Monday at 11.

Senior A Abstract changes from Thursday at 11 to Wednesday at 11.

Senior A Machine Design changes to Crane Design with the following change of hours:—Tuesday P. M. changes from 3 to 4 hours. Saturday A. M., hours are removed.

Senior A Mech. Eng. Lab. changes from Thursday P. M. to Saturday A. M.

Senior A Thesis given all day Thursday.

Senior D Hydraulics on Monday, Tuesday, Wednesday and Thursday at 9 A. M. is replaced at Steam Engineering at the same hour.

Dept. of Electrical Engineering,

Elem. Elec. Eng. No. 7 for the first eight weeks consists of two lectures for Divs. A, B, and D. Tuesday at 10, Saturday at 11.

For the last eight weeks a laboratory is given for each division separately,

Div. A, Saturday 8-12.

Div. B, Tuesday 1-5.

Div. D, Thursday 8-12.

SENIOR

	Div.	8-9	9-10	10-11	11-12	1-2	2-3	3-4	4-5
Monday	A		Machine Design		Business Law			Shop Practice	
	B			Sanitary Eng.	Business Law			Structural Design	Abstracts
	C	Electro. Chem.	Materials	Theoret. Chem.	Business Law			Theoretical Chemistry	
	D		Hydraulics	Illumination Eng.	Business Law			Thesis	
Tuesday	A			Steam Engineering	Air Engineering			Machine Design	
	B		Sanitary Chem.	Framed Struct.	Water Supply			Mech. Eng. Lab.	
	C		Industrial Chemistry Lab.					Indust. Chem. Lab.	
	D		Hydraulics	Telephone Eng.	Alt. Currents			Elec. Eng. Design	
Wednesday	A		Machine Design		Business Law			Shop Practice	
	B		Sanitation	Water Supply	Business Law			Sanitary Chemistry	
	C		Sanitation	Electro Chem.	Business Law			Structural Design	
	D		Hydraulics	Transmission Eng.	Business Law			Indust. Chem. Lab.	
Thursday	A			Steam Eng.	Abstracts			Mech. Eng. Lab.	
	B		Framed Structures	Sanitary Eng.				Sanitary Chemistry	
	C			Thesis				Structural Design	
	D		Hydraulics	Alter. Currents	Electric R. R.			Thesis	
Friday	A			Thesis				Elec. Eng. Lab.	
	B			Thesis				Thesis	
	C			Thesis				Thesis	
	D		Transmission Eng.	Indust. Elec. Eng.	Storage Batteries			Thesis	
Saturday	A			Machine Design				Elec. Eng. Lab.	
	B			Thesis					
	C			Thesis					
	D		Business Method	Electric Rys.	Abstracts				

JUNIOR

	Div.	8-9	9-10	10-11	11-12	1-2	2-3	3-4	4-5
Monday	A		Materials	Mechanics	Political Sci.			Mechanical Eng. Lab.	
	B		Materials	Mechanics	Political Sci.			Mech. Eng. Lab.	
	C		Material	Geodesy	English			Quantitative Analysis	
	D	Organic Chemistry	Organic Chemistry Lab.					Organic Chem. Lab.	
	E		Materials	Political Sci.	Mechanics			Elec. Eng. Lab.	
	F		Materials	Political Sci.	Mechanics			Physics Lab.	
Tuesday	A		Mechanics	Elem. Elec. Eng.	Political Sci.				
	B		Mechanics	Elem. Elec. Eng.	Political Sci.			Elec. Eng. Lab.	
	C		Mechanics	Geodesy	Political Sci.			Graphical Statics	
	D		Organic Chem.	Elem. Elec. Eng.	Political Sci.			Organic Chem. Lab.	
	E		Mechanics	Alt. Currents	Political Sci.			Physics Lab.	
	F		Mechanics	Alt. Currents	Political Sci.			Elec. Eng. Design	
Wednesday	A			Mechanics	Thermodynamics			Shop Practice	
	B			Mechanics	Thermodynamics			Shop Practice	
	C		Geodesy		Graphical Statics			Physics Lab.	
	D	Organic Chem.		Machine Drawing				Machine Drawing	
	E		Mechanics	Elem. Elec. Eng.	Elec. Eng. Design				
	F		Mechanics	Elem. Elec. Eng.	Elec. Eng. Design			Elec. Eng. Lab.	
Thursday	A		Shop Practice					Political Science	
	B		Shop Practice					Political Science	
	C		Mechanics	Abstracts	Political Sci.			Physics Lab.	
	D			Geodesy					
	E		Elec. Eng. Lab.	Political Sci.	Mechanics			Political Science	Physical Chem.
	F		Abstracts	Political Sci.	Mechanics			Elec. Eng. Design	
Friday	A		Mechanics	Thermodynamics	Political Sci.			Physics Lab.	
	B		Mechanics	Thermodynamics	Political Sci.			Shop Practice	
	C		Geodesy	Mechanics	Political Sci.			Quantitative Analysis	
	D	Organic Chem.	Abstracts	Physical Chem.	Political Sci.			Physical Chem. Lab.	
	E			Alt. Currents	Political Sci.				
	F		Elem. Elec. Eng.	Alt. Currents	Political Sci.			Elem. Elec. Eng.	
Saturday	A			Elec. Eng. Lab.	Political Sci.				
	B			Political Sci.					
	C		English	Mechanics					
	D		Political Sci.						
	E		Abstracts	Elec. Eng. Lab.	Elec. Eng. Des.				
	F			Elec. Eng. Lab.	Elec. Eng. Des.				

HOUR PLAN SCHEDULE OF RECITATIONS (Continued)

SOPHOMORE

	Div.	8-9	9-10	10-11	11-12	1-2	2-3	3-4	4-5
Monday	A		Calculus	French or German	Physics		Calculus		
	B			Physics	Physics			Machine Drawing	
	C		R. R. Engineering	French or German	Physics			Machine Drawing	
	D		R. R. Engineering	French or German	Physics			Qualitative Analysis	
	E							Quantitative Analysis	
	F		Physics	French	Physics				
	G		Qualitative Anal.	Calculus	Physics			Qualitative Analysis	
Tuesday	A		Calculus	English			Shop Practice		
	B		Calculus	English			Shop Practice		
	C		Shop Practice			Calculus	Physics		
	D		Shop Practice			Calculus	Physics		
	E		Physics	German	Abstracts			Qualitative Analysis	
	F		Physics	Calculus				Machine Drawing	
	G		Physics	German	Calculus			Machine Drawing	
Wednesday	A		Shop Practice				Physics	Calculus	
	B		Shop Practice					Calculus	
	C		Calculus	Physics				Surveying	
	D		Physics	Calculus	Qualitative Anal.			Surveying	
	E		Qualitative Analysis				Hist. of Chemistry	Physics	
	F		Calculus	Physics					Machine Drawing
	G		Physics	Calculus	Qualitative Anal.				Machine Drawing
Thursday	A		Physics	French or German	Physics			Machine Drawing	
	B		English	Physics	Physics			Machine Drawing	
	C		Calculus	French or German	Physics			Machine Drawing	
	D		Calculus	French or German	Physics		Surveying		
	E		Abstracts	French	Physics		Surveying		
	F		Physics	English	Physics			English	
	G		Physics	French	Physics		Shop Practice		
Friday	A		Physics	Calculus	English		Shop Practice		
	B		Physics	Calculus			Machine Drawing		
	C		Calculus	Railroad Eng.			Machine Drawing		
	D		Calculus	R. R. Eng.		Surveying			
	E		English	Hist. of Chem.	Physics	Surveying			
	F		Physics	Physics	Calculus	Quantitative Analysis			
	G		Physics	English	German	Qualitative Analysis			
Saturday	A		Calculus	Physics			Calculus		
	B		Physics	Calculus					
	C		Calculus	Physics	Physics				
	D		Physics	Calculus					
	E	Physics	Quantitative Analysis						
	F			English	Calculus				
	G		Calculus	English					

FRESHMAN

	Div.	8-9	9-10	10-11	11-12	1-2	2-3	3-4	4-5
Monday	A		Descrip. Geom.		General Chemistry			Anal. Geom.	
	B		Descrip. Geom.	German	General Chemistry		General Chem. Lab.		
	C		Descrip. Geom.		General Chemistry			German	
	D		German		General Chemistry		Shop Practice		
	E		French		General Chemistry			Anal. Geom.	
	F		Anal. Geom.	Desc. Geom.	General Chemistry		German		
	G			Anal. Geom.	General Chemistry		German		
Tuesday	A		French	Desc. Geom.	General Chemistry				
	B			Anal. Geom.	English		German	Shop Practice	
	C		German	Anal. Geom.	English		General Chem. Lab.		
	D			German	English		Anal. Geom.		
	E			Desc. Geom.	English				
	F				English		Desc. Geom.	French	
	G		General Chemistry	Anal. Geom.	English		German	German	
Wednesday	A		Desc. Geom.	Anal. Geom.	English		French		
	B		General Chemistry	Anal. Geom.	English		German	French	
	C		Desc. Geom.	Anal. Geom.	English				
	D		General Chem. Lab.		General Chemistry		General Chem.	German	
	E		German	Desc. Geom.	General Chemistry		German	Anal. Geom.	
	F		German	English	General Chemistry				
	G		Anal. Geom.	French	General Chemistry		General Chem. Lab.		
Thursday	A		Desc. Geom.	German	General Chemistry		Shop Practice		
	B		Desc. Geom.	German	General Chemistry			General Chemistry	
	C		Desc. Geom.	German	General Chemistry				
	D		Desc. Geom.	German	General Chemistry				
	E		Desc. Geom.	German	General Chemistry				
	F		Desc. Geom.	German	General Chemistry				
	G		Desc. Geom.	German	General Chemistry				
Friday	A		Desc. Geom.	German	General Chemistry				
	B		Desc. Geom.	German	General Chemistry				
	C		Desc. Geom.	German	General Chemistry				
	D		Desc. Geom.	German	General Chemistry				
	E		General Chem. Lab.		General Chemistry				
	F		Anal. Geom.		General Chemistry				
	G		Desc. Geom.	English	General Chemistry				
Saturday	A		Desc. Geom.		General Chemistry				
	B			English	Anal. Geom.				
	C		German	General Chem.					
	D		Desc. Geom.	German	Anal. Geom.				
	E		Anal. Geom.	Desc. Geom.					
	F		Shop Practice						
	G			Anal. Geom.					
	A	General Chem.	General Chem. Lab.						
	B								
	C								
	D								
	E								
	F								
	G								

(Continued from Page 1)

The scores against the University of Pennsylvania were:

	Standing	Prone	Total
A. L. Miller	89	96	185
C. S. Darling	86	99	185
C. F. Fritch	78	95	173
M. M. Smith	90	82	172
H. F. Banan	84	88	172

Team totals	427	460	887
Those who did not qualify:			
G. N. Davidson	80	92	172
E. L. Bragdon	82	88	170
S. G. Leonard	80	88	168
H. R. Parmelee	83	85	168
L. R. Hathaway	77	86	163

The scores against University of Missouri:			
G. N. Davidson	89	97	186
E. L. Bragdon	88	98	186
M. M. Smith	84	95	179
A. L. Miller	86	92	178
S. G. Leonard	82	92	174

Team totals	429	474	903
Those who did not qualify:			
H. F. Banan	81	93	174
R. H. Dunbar	80	94	174
C. S. Darling	74	97	171
H. H. Watson	74	90	164
C. F. Fritch	68	95	163

JOINT ENGINEERING MEETING

AUSPICES OF ELECTRICAL SOCIETY.

January 9th, Dr. Watson was scheduled to speak on the "Development of the Modern Telephone" at the joint engineering society meeting. Dr. Watson was detained at the last minute on account of illness and Prof. H. B. Smith gave an illustrated lecture on his travels in Europe during his recent leave of absence from the Institute.

THE RIFLE CLUB

Essay No. 5
BY THE IDIOT

The Popular Sport, the Real Cosmopolitan Club has Arrived. The Rifle Club, with Office and Range in Boynton Hall Basement between the Furnace and the Shower Baths, had Sixty-seven Members at a Dollar a Head at six P. M. Thursday, Jan. 7; you're Next. Let the man who says this is artificial Enthusiasm try to pass an artificial Dollar across the bench where the New Members draw their First Target and buy their Ammunition!

Secretary Shedd, on being asked if he had Finished Shooting, replied that he was only Half Shot. The Proprietor of the Tech Lunch, seeing an increased Patronage of his Sausage Factory, offers a Cup (of Coffee) to the man who Hangs around the Range longest Three Days out of Five (Hamburg Henry not allowed to Compete till after he gets Fired for Neglect of Duty).

Members are requested not to eat Onions before using the Range; this to Preserve the Unity of Atmosphere obtained by Barring Cigarettes and using smokeless Powder exclusively.

Sidney Swallow '15, who attended the Kansas City Missions Convention this Christmas was taken ill there and was unable to return.

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FISHER & GREEN
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PLAZA

WEEK OF JANUARY 19TH

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THESIS SUBJECTS—1914

Senior Class—Department of Mechanical Engineering:

Bartlett and Inman: The Heat Treatment of Alloy Steels.

Crouch and Hillman: Efficiency of Bevel Gear Drives.

B. S. Dayton: Physical Properties of Gray Iron Castings from Permanent Molds.

R. H. Dunbar: Cost System for the Power House.

Eaton and Vose: The Efficiency of Gas Engines.

Farrar and Marsh: Construction and Test of a Carburetor for Low Grade Gasoline.

Fay and Hedstrom: Test of a Water Wheel Governor.

Hosmer and Reed: Effect of Heat Treatment on the Torsional Strength of Taps.

Howes and Ormsbee: Automobile Efficiency and Effectiveness.

Karb and Thurston: Test of a High Speed Water Wheel.

Lewis and Martin: The Effect of Size of Test Specimen on the Tensile Strength of Heat Treated Alloy Steel.

A. P. Nutter (with E. E. Gilmore of C. E. Dept.): Effect of Low Temperature on the Physical Properties of Steel.

Peters and Prouty: Cost Study in a Local Manufacturing Plant.

Senior Class—Civil Engineering Dept.

Allardice and Griffin: A Study of the Strength of Pipe for Structural Work.

Purrrington and Whitlock: Comparison of Various Types of Current Meters.

DAVISON ON BUSINESS SUCCESS TECH SPIRIT RAMPANT

A goodly crowd of Tech men were present at the last of the series of talks on "Business Success," given by Herbert N. Davison, Secretary of the Worcester Chamber of Commerce. Before the talk Tech songs and yells were indulged in under the leadership of Winfield Jewell; and Harlan Stuart gave a report for the six Tech men present at the Kansas City Missions Conference during Christmas vacation. Mr. Davison's talk was a "hummer," and he had the sympathy of the audience all the time with his catchy phrases and keen insight into human problems, and his language would have been a delight to Professor Haynes. He emphasized the importance of three lines of business, not publicly lauded, the professions of the farmer, the teacher and the Christian.

Y. M. C. A. NOTES

No Popular this week. Every Y. M. C. A. member should put the best there is in him into his examinations, for the Association's sake as well as his own.

Dr. Foster begins his series of meetings Wednesday, February 4th. This will be the best series of meetings we have had this year. The theme will be "Science and Religion," an important one for technical men. The first twenty minutes of each meeting will be given over to Tech cheers and songs and to reports from various student organizations.

Bible Study groups resume their meetings Monday, February 2. A new group has recently been organized in the Phi Gamma Delta Fraternity under the leadership of Rev. Allyn King Foster.

The Third Annual Bible Study Luncheon will be held during the week of February 9th. The exact date, with program, will be announced next week. Price of tickets, 50 cents. A good feed and interesting evening is promised.

Reports were given Sunday morning and evening at Trinity and Plymouth Church by the Worcester delegation to the Kansas City Convention. Next Sunday they are to be at Union and Pilgrim Churches.

ALUMNI LUNCHEON

HARRY SMITH SPEAKS AT TATNUCK COUNTRY CLUB

The Tatnuck Country Club was the scene of the second informal luncheon of the Worcester County Alumni Association last Friday evening. Mr. Harry Worcester Smith, a member of the class of '87, was the principal speaker and his subject was, "Worcester Horses and Hounds Abroad." Mr. Smith was particularly well fitted to speak on this matter as he is one of America's foremost sportsmen and is continually before the public through his achievements with horses, especially steeple-chasing. Mr. Smith is also the master of the Grafton hounds and recently acquired notoriety by taking sixteen hunters abroad and hunting in Ireland in competition with the pick of the European hounds. His talk was based upon this foreign trip which afforded excellent means of comparison.

Professor Butterfield also addressed the Association, and told of some of the more recent developments in the Alumni Field work. His talk is given elsewhere in this issue.

W. P. I. DIRECTORY

Baseball.....	W. R. Adams—Park 4963
Football.....	E. T. Warren—Park 8020
Track.....	Warren Pike—Park 4349
President 1914.....	C. F. Fritch—Park 2278
President 1915.....	H. C. Barnes—Cedar 1132-M
President 1916.....	C. H. Burgess—Park 2757-M
President 1917.....	T. R. Stenberg—Park 7737-W
President A. A.....	R. L. Keith—Park 928
President Chem. Club.....	W. J. Kelley—Park 2489-R
President Civil Eng. Soc.....	A. S. Crandon
President Mech. Eng. Soc.....	D. W. Ormsbee—Park 2278
President Elec. Eng. Soc.....	W. C. Blanchard—Park 4963
President Y. M. C. A.....	Donald Purrrington—Park 4349
Secretary Y. M. C. A.....	C. P. Shedd—Cedar 28
Orchestra.....	C. G. Carlson—Park 4349
Glee Club.....	J. L. Weaver
Dramatic Association.....	W. B. Brown—Park 4963
Aftermath.....	R. L. Hancock—Park 2278
Rifle Club.....	C. F. Fritch, Park 2278